WHAT IS CLAIMED IS:

1. (currently amended) A sealing ring comprising:

a support member;

a sealing lip connected to the support member and configured to rest against a machine part to be sealed;

the sealing lip having a passage for the machine part, wherein the ~~passage~~ sealing lip points to an air side of the machine part to be sealed and has a contact side provided with a return conveying device for a medium to be sealed at a medium side of the machine part;

wherein the return conveying device is configured as an alternating twist structure;

wherein the alternating twist structure is a sine structure extending at a spacing about a sealing edge of the sealing lip and formed by recesses in the contact side;

wherein the sealing edge is a closed ring;

wherein the sealing lip is comprised of polyfluorocarbon.

2. (withdrawn) The sealing ring according to claim 1, wherein the alternating twist structure is formed by at least one elliptical structure.

3. (withdrawn) The sealing ring according to claim 2, wherein several of the at least one elliptical structure are arranged so as to cross one another.

4. (withdrawn) The sealing ring according to claim 2, wherein the at least one elliptical structure surrounds the passage of the sealing lip.

5. (withdrawn) The sealing ring according to claim 3, wherein the elliptical structures are angularly staggered relative to one another about a circumference of the sealing lip.

6. (withdrawn) The sealing ring according to claim 5, wherein major axes of neighboring ones of the elliptical structures are positioned at an acute angle relative to one another.

7. (withdrawn) The sealing ring according to claim 2, wherein the elliptical structures surround at a spacing a sealing edge of the sealing lip.

8. (canceled)

9. (currently amended) The sealing ring according to claim 1 [8], wherein the sine structure extends peripherally about the sealing edge.

10. (withdrawn) The sealing ring according to claim 1, wherein the alternating twist structure is formed by arc-shaped and wedge-shaped structures opening in a direction toward the medium side.

11. (withdrawn) The sealing ring according to claim 10, wherein the arc-shaped and wedge-shaped structures are uniformly distributed about a periphery of a sealing edge of the sealing lip.

12. (withdrawn) The sealing ring according to claim 10, wherein the vertex of the arc-shaped and wedge-shaped structures contacts a closed ring surrounding the passage of the sealing lip.

13. (withdrawn) The sealing ring according to claim 10, wherein the arc-shaped and wedge-shaped structures have sections diverging in a direction toward the medium side.

14. (withdrawn) The sealing ring according to claim 13, wherein the sections are straight.

15. (withdrawn) The sealing ring according to claim 10, wherein the vertex of the arc-shaped and wedge-shaped structures are spaced from the sealing edge.

16. (withdrawn) The sealing ring according to claim 1, wherein the alternating twist structure is formed by straight structures crossing one another.

17. (withdrawn) The sealing ring according to claim 16, wherein the straight structures are positioned at an obtuse angle to one another.

18. (withdrawn) The sealing ring according to claim 16, wherein the straight structures extend up to a sealing edge of the sealing lip.

19. (withdrawn) The sealing ring according to claim 18, wherein the straight structures intersect one another in the area of the sealing edge.

20. (original) The sealing ring according to claim 1, comprising a sealing disk that is comprised of polyfluorocarbon, wherein the sealing lip is part of the sealing disk.

21. (original) The sealing ring according to claim 20, wherein the polyfluorocarbon is polytetrafluoroethylene.

22. (currently amended) The sealing ring according to claim 1, comprising a sealing disk that is comprised of [an] a polyfluorocarbon elastomer, wherein the sealing lip is part of the sealing disk.

23. (original) The sealing ring according to claim 1, comprising a sealing disk that is comprised of elastomer-modified polytetrafluoroethylene, wherein the sealing lip is part of the sealing disk.

24. (canceled)

25. (original) The sealing ring according to claim 1, wherein the alternating twist structure is formed by projections of the sealing lip.